

## ABSTRACT

An apparatus and methods for chlorine dioxide generation. The chlorine dioxide apparatus may comprise a plurality of metering pumps for delivering a plurality of reactant chemicals. The reactant chemicals are preferably delivered to a reaction column through inlet ports where the reactants are mixed to form the desired reactants. A synchronizer may control the metering pump action to provide synchronized delivery of the plurality of reactant chemicals to the reaction column.

Docket 3252.2.3

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10001897-112101  
TOTAL 4687000